

# **DELAWDER COMMUNICATIONS, INC.**

2121 Eisenhower Avenue, Suite 200

Alexandria, Virginia 22314

(703) 299-9222

## **ENGINEERING REPORT**

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Hispanic Christian Community Network, Inc.

K02QH, Gainesville, TX: Site Move Minor Amendment (ch 2-)

### **EXHIBIT 8**

#### **LPTV MINOR AMENDMENT – INTERFERENCE STUDIES**

1. Hispanic Christian Community Network, Inc. ("Applicant") holds a construction permit for K02QH, Gainesville, TX, analog channel 2, with a pending site-move application (FCC File No. BMPTVL-20080611ACN). On June 19, 2008, Applicant received a letter from the FCC requesting an amendment to BMPTVL-20080611ACN to address the 75 mile distance restriction to Dallas and Ft. Worth, Texas, that is violated by the new site.<sup>1</sup>

2. By this amendment, Applicant further relocates to a site that meets the 75 mile distance restriction to Dallas and Ft. Worth to N 33° 50' 19"; W 97° 07' 32" (NAD 27).<sup>2</sup> Also, by this analog amendment, Applicant proposes to operate on channel 2 with minus frequency offset and 1 kW omnidirectional ERP. No other changes are proposed. This is a minor change amendment.

3. The use of minus frequency offset is made in order to add protection to and from any nearby analog co-channel station. The applicant will maintain the requested offset per 47 C.F.R. Section 74.761 by use of a precision oscillator supplied by the transmitter manufacturer.

4. This amendment proposes a site that does not require coordination with Mexico.

5. Attached as Figure 1 are the OET-69 study results for the proposed facility (as the referenced station) as determined on a Sun Computer using a Solaris (Unix-based) operating system and using the same OET-69 software as developed for use by the FCC. (According to the software developer, the program used herein provides identical results as the FCC's OET-69 processing program.) Except for those stations also licensed, authorized or proposed by the applicant, or those stations that have consented to predicted interference from this proposal, the proposed facility adequately protects all US broadcast stations as required by the FCC Rules. All studies are conducted in accordance with current FCC Rules and Regulations.

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<sup>1</sup> The FCC letter was not dated, but was received by HCCN on June 19, 2008. The letter provides 30 days to respond.

<sup>2</sup> 75.19 miles (121.01 km) from Dallas; 76.19 miles (122.61 km) from Ft. Worth.

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6. The Applicant accepts any existing and future interference that may result from any primary or secondary TV station that is otherwise deemed to have status priority to the herein-proposed facility.

# FIGURE 1—OET-69 STUDY FOR K02QH, GAINESVILLE, TX (CH 2-) AMENDMENT

## TV INTERFERENCE and SPACING ANALYSIS PROGRAM

Date: 07-10-2008 Time: 10:33:18

Record Selected for Analysis

K02QH USERRECORD-01 GAINESVILLE TX US  
Channel 02 ERP 1. kW HAAT 80. m RCAMSL 00289 m  
Latitude 033-50-19 Longitude 0097-07-32  
Status APP Zone 2 Border Offset -  
Last update Cutoff date Docket  
Comments  
Applicant

Census data selected: 1990

Cell Size for Service Analysis 2.0 km/side

Distance Increments for Longley-Rice Analysis 1.00 km

Not full service station

Facility meets maximum power limit

Azimuth (Deg)	ERP (kW)	HAAT (m)	62.0 dBu F(50,50) (km)
0.0	1.000	36.8	10.0
45.0	1.000	59.1	12.6
90.0	1.000	79.5	14.4
135.0	1.000	65.7	13.2
180.0	1.000	53.8	12.1
225.0	1.000	53.9	12.1
270.0	1.000	37.6	10.1
315.0	1.000	64.0	13.0

Proposed facility OK to FCC Monitoring Stations

Proposed facility OK toward West Virginia quiet zone

Proposed facility OK toward Table Mountain

Proposed facility is beyond the Canadian coordination distance

Proposed facility is beyond the Mexican coordination distance

Proposed station is OK toward AM broadcast stations

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# FIGURE 1—OET-69 STUDY FOR K02QH, GAINESVILLE, TX (CH 2-) AMENDMENT

## Start of Interference Analysis

Channel	Call	Proposed Station City/State	ARN
02	K02QH	GAINESVILLE TX	USERRECORD01

## Stations Potentially Affected by Proposed Station

Chan	Call	City/State	Dist(km)	Status	Application	Ref. No.
02	KDTN	DENTON TX	140.3	CP MOD	BMPET	-20041216AAR
02	KDTN	DENTON TX	139.6	LIC	BLET	-19900131KE
02	K02EQ	PARIS TX	142.2	LIC	BLTTV	-3367
02	NEW	WICHITA FALLS TX	130.6	APP	BNPTVL	-20000828BGB

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## Analysis of Interference to Affected Station 1

### NTSC Baseline Analysis

Channel	Call	City/State	Application	Ref. No.
02	KDTN	DENTON TX	DTVPLN	-NPLN0199

## Stations Potentially Affecting This Station

Chan	Call	City/State	Dist(km)	Status	Application	Ref. No.
02	KJRH	TULSA OK	399.5	PLN	DTVPLN	-NPLN0189
02	NEW	FREDERICKSBURG TX	315.6	PLN	DTVPLN	-NPLN0200
02	KPRCTV	HOUSTON TX	363.8	PLN	DTVPLN	-NPLN0201
03	KFDXTV	WICHITA FALLS TX	206.5	PLN	DTVPLN	-NPLN0263

Results for:	2N TX DENTON	DTVPLN	NPLN0199	PLN
		POPULATION	AREA (sq km)	
within Noise Limited Contour	4220376	39692.5		
not affected by terrain losses	4212198	38945.0		
lost to NTSC IX	36038	2113.8		
lost to additional IX by ATV	0	0.0		
lost to all IX	36038	2113.8		

### Analysis of current record

Channel	Call	City/State	Application	Ref. No.
02	KDTN	DENTON TX	BMPET	-20041216AAR

## Stations Potentially Affecting This Station

Chan	Call	City/State	Dist(km)	Status	Application	Ref. No.
02	KJRH	TULSA OK	399.9	LIC	BLCT	-19841029KH
02	KCWX	FREDERICKSBURG TX	313.7	LIC	BLCT	-20000811ACG
02	KPRC-TV	HOUSTON TX	363.0	LIC	BLCT	-19850429KF
03	KFDX-TV	WICHITA FALLS TX	207.5	LIC	BLCT	-19780911KE
02	K02QH	GAINESVILLE TX	140.3	APP	USERRECORD-01	

Total scenarios = 1

# FIGURE 1—OET-69 STUDY FOR K02QH, GAINESVILLE, TX (CH 2-) AMENDMENT

Result key: 1  
 Scenario 1 Affected station 1 KDTN  
 Before Analysis

Results for: 2N TX DENTON BMPET 20041216AAR CP  
 POPULATION AREA (sq km)  
 within Noise Limited Contour 4223828 39613.3  
 not affected by terrain losses 4207836 38604.5  
 lost to NTSC IX 51609 3826.3  
 lost to additional IX by ATV 0 0.0  
 lost to all IX 51609 3826.3

Potential Interfering Stations Included in above Scenario 1

2N OK TULSA	BLCT	19841029KH	LIC
2N TX FREDERICKSBURG	BLCT	20000811ACG	LIC
2N TX HOUSTON	BLCT	19850429KF	LIC

After Analysis

Results for: 2N TX DENTON BMPET 20041216AAR CP  
 POPULATION AREA (sq km)  
 within Noise Limited Contour 4223828 39613.3  
 not affected by terrain losses 4207836 38604.5  
 lost to NTSC IX 71176 5719.3  
 lost to additional IX by ATV 0 0.0  
 lost to all IX 71176 5719.3

Potential Interfering Stations Included in above Scenario 1

2N OK TULSA	BLCT	19841029KH	LIC
2N TX FREDERICKSBURG	BLCT	20000811ACG	LIC
2N TX HOUSTON	BLCT	19850429KF	LIC
2N TX GAINESVILLE	USERRECORD01		APP

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Analysis of Interference to Affected Station 2

Analysis of current record

Channel	Call	City/State	Application	Ref. No.
02	KDTN	DENTON TX	BLET	-19900131KE

Stations Potentially Affecting This Station

Chan	Call	City/State	Dist(km)	Status	Application	Ref. No.
02	KJRH	TULSA OK	399.5	LIC	BLCT	-19841029KH
02	KCWX	FREDERICKSBURG TX	313.9	LIC	BLCT	-20000811ACG
02	KPRC-TV	HOUSTON TX	363.8	LIC	BLCT	-19850429KF
03	KFDX-TV	WICHITA FALLS TX	206.6	LIC	BLCT	-19780911KE
02	K02QH	GAINESVILLE TX	139.6	APP	USERRECORD-01	

Total scenarios = 1

# FIGURE 1—OET-69 STUDY FOR K02QH, GAINESVILLE, TX (CH 2-) AMENDMENT

Result key: 2  
 Scenario 1 Affected station 2 KDTN  
 Before Analysis

Results for: 2N TX DENTON BLET 19900131KE LIC  
 POPULATION AREA (sq km)  
 within Noise Limited Contour 4220376 39692.5  
 not affected by terrain losses 4212198 38945.0  
 lost to NTSC IX 55527 3789.6  
 lost to additional IX by ATV 0 0.0  
 lost to all IX 55527 3789.6

Potential Interfering Stations Included in above Scenario 1

2N OK TULSA	BLCT	19841029KH	LIC
2N TX FREDERICKSBURG	BLCT	20000811ACG	LIC
2N TX HOUSTON	BLCT	19850429KF	LIC

After Analysis

Results for: 2N TX DENTON BLET 19900131KE LIC  
 POPULATION AREA (sq km)  
 within Noise Limited Contour 4220376 39692.5  
 not affected by terrain losses 4212198 38945.0  
 lost to NTSC IX 73436 5815.0  
 lost to additional IX by ATV 0 0.0  
 lost to all IX 73436 5815.0

Potential Interfering Stations Included in above Scenario 1

2N OK TULSA	BLCT	19841029KH	LIC
2N TX FREDERICKSBURG	BLCT	20000811ACG	LIC
2N TX HOUSTON	BLCT	19850429KF	LIC
2N TX GAINESVILLE	USERRECORD01		APP

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Analysis of Interference to Affected Station 3

Analysis of current record

Channel	Call	City/State	Application	Ref. No.
02	K02EQ	PARIS TX	BLTTV	-3367

Stations Potentially Affecting This Station

Chan	Call	City/State	Dist(km)	Status	Application	Ref. No.
02	KETS	LITTLE ROCK AR	324.1	APP	BSTA	-20080618ARZ
02	KETS	LITTLE ROCK AR	326.3	LIC	BLET	-19870930KG
02	KJRH	TULSA OK	263.8	LIC	BLCT	-19841029KH
02	KDTN	DENTON TX	173.2	CP MOD	BMPET	-20041216AAR
02	K02QH	GAINESVILLE TX	140.3	CP	BNPTVL	-20000830BQU
03	KHPK-LP	DE SOTO TX	173.3	CP	BDCCDVL	-20061010ACG
02	K02QH	GAINESVILLE TX	142.2	APP	USERRECORD-01	

Total scenarios = 1

# FIGURE 1—OET-69 STUDY FOR K02QH, GAINESVILLE, TX (CH 2-) AMENDMENT

Result key: 3  
 Scenario 1 Affected station 3 K02EQ  
 Before Analysis

Results for: 2N TX PARIS BLTTV 3367 LIC  
 POPULATION AREA (sq km)  
 within Noise Limited Contour 28777 201.1  
 not affected by terrain losses 28741 197.1  
 lost to NTSC IX 10052 156.9  
 lost to additional IX by ATV 0 0.0  
 lost to all IX 10052 156.9

Potential Interfering Stations Included in above Scenario 1

2N OK TULSA BLCT 19841029KH LIC  
 2N TX DENTON BMPET 20041216AAR CP

After Analysis

Results for: 2N TX PARIS BLTTV 3367 LIC  
 POPULATION AREA (sq km)  
 within Noise Limited Contour 28777 201.1  
 not affected by terrain losses 28741 197.1  
 lost to NTSC IX 10052 156.9  
 lost to additional IX by ATV 0 0.0  
 lost to all IX 10052 156.9

Potential Interfering Stations Included in above Scenario 1

2N OK TULSA BLCT 19841029KH LIC  
 2N TX DENTON BMPET 20041216AAR CP  
 2N TX GAINESVILLE USERRECORD01 APP

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Analysis of Interference to Affected Station 4

Analysis of current record

Channel Call City/State Application Ref. No.  
 02 NEW WICHITA FALLS TX BNPTVL -20000828BGB

Stations Potentially Affecting This Station

Chan	Call	City/State	Dist(km)	Status	Application	Ref. No.
02	KJRH	TULSA OK	351.5	LIC	BLCT	-19841029KH
02	KACV-TV	AMARILLO TX	340.4	LIC	BLET	-19880831KF
02	KDTN	DENTON TX	207.1	CP MOD	BMPET	-20041216AAR
02	NEW	WICHITA FALLS TX	9.0	APP	BNPTVL	-20000816AAU
03	KHPK-LP	DE SOTO TX	206.2	CP	BDCCDVL	-20061010ACG
03	KFDX-TV	WICHITA FALLS TX	2.2	LIC	BLCT	-19780911KE
03	NEW	WICHITA FALLS TX	0.8	APP	BNPTVL	-20000802ABV
02	K02QH	GAINESVILLE TX	130.6	APP	USERRECORD-01	

# FIGURE 1—OET-69 STUDY FOR K02QH, GAINESVILLE, TX (CH 2-) AMENDMENT

Total scenarios = 3

Result key: 4  
 Scenario 1 Affected station 4 NEW  
 Before Analysis

Results for:	2N TX WICHITA FALLS	BNPTVL	20000828BGB	APP
		POPULATION	AREA (sq km)	
	within Noise Limited Contour	124879	2170.3	
	not affected by terrain losses	124879	2170.3	
	lost to NTSC IX	67366	2061.9	
	lost to additional IX by ATV	0	0.0	
	lost to all IX	67366	2061.9	

Potential Interfering Stations Included in above Scenario 1

3N TX WICHITA FALLS	BLCT	19780911KE	LIC
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After Analysis

Results for:	2N TX WICHITA FALLS	BNPTVL	20000828BGB	APP
		POPULATION	AREA (sq km)	
	within Noise Limited Contour	124879	2170.3	
	not affected by terrain losses	124879	2170.3	
	lost to NTSC IX	67366	2061.9	
	lost to additional IX by ATV	0	0.0	
	lost to all IX	67366	2061.9	

Potential Interfering Stations Included in above Scenario 1

3N TX WICHITA FALLS	BLCT	19780911KE	LIC
2N TX GAINESVILLE	USERRECORD01		APP

Result key: 5  
 Scenario 2 Affected station 4 NEW  
 Before Analysis

Results for:	2N TX WICHITA FALLS	BNPTVL	20000828BGB	APP
		POPULATION	AREA (sq km)	
	within Noise Limited Contour	124879	2170.3	
	not affected by terrain losses	124879	2170.3	
	lost to NTSC IX	92550	2090.0	
	lost to additional IX by ATV	0	0.0	
	lost to all IX	92550	2090.0	

Potential Interfering Stations Included in above Scenario 2

2N TX WICHITA FALLS	BNPTVL	20000816AAU	APP
3N TX WICHITA FALLS	BLCT	19780911KE	LIC

After Analysis

Results for:	2N TX WICHITA FALLS	BNPTVL	20000828BGB	APP
		POPULATION	AREA (sq km)	
	within Noise Limited Contour	124879	2170.3	
	not affected by terrain losses	124879	2170.3	



# FIGURE 1—OET-69 STUDY FOR K02QH, GAINESVILLE, TX (CH 2-) AMENDMENT

lost to NTSC IX	92550	2090.0
lost to additional IX by ATV	0	0.0
lost to all IX	92550	2090.0

Potential Interfering Stations Included in above Scenario 2

2N TX WICHITA FALLS	BNPTVL	20000816AAU	APP
3N TX WICHITA FALLS	BLCT	19780911KE	LIC
2N TX GAINESVILLE	USERRECORD01		APP

Result key: 6  
 Scenario 3 Affected station 4 NEW  
 Before Analysis

Results for: 2N TX WICHITA FALLS	BNPTVL	20000828BGB	APP
	POPULATION	AREA (sq km)	
within Noise Limited Contour	124879	2170.3	
not affected by terrain losses	124879	2170.3	
lost to NTSC IX	67366	2061.9	
lost to additional IX by ATV	0	0.0	
lost to all IX	67366	2061.9	

Potential Interfering Stations Included in above Scenario 3

3N TX WICHITA FALLS	BLCT	19780911KE	LIC
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After Analysis

Results for: 2N TX WICHITA FALLS	BNPTVL	20000828BGB	APP
	POPULATION	AREA (sq km)	
within Noise Limited Contour	124879	2170.3	
not affected by terrain losses	124879	2170.3	
lost to NTSC IX	67366	2061.9	
lost to additional IX by ATV	0	0.0	
lost to all IX	67366	2061.9	

Potential Interfering Stations Included in above Scenario 3

3N TX WICHITA FALLS	BLCT	19780911KE	LIC
2N TX GAINESVILLE	USERRECORD01		APP

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